Hypertension

AN OFFICIAL JOURNAL OF THE AMERICAN HEART ASSOCIATION

VOLUME 1
January-December, 1979

AMERICAN HEART ASSOCIATION, INC.

Hypertension

AN OFFICIAL JOURNAL OF THE AMERICAN HEART ASSOCIATION

EDITOR-IN-CHIEF
HARRIET P. DUSTAN, *Birmingham, Alabama*

ASSOCIATE EDITORS
SUZANNE OPARIL, *Birmingham, Alabama*
HENRY W. OVERBECK, *Birmingham, Alabama*

ASSISTANT EDITOR
JERRE L. MYERS, *Birmingham, Alabama*

TECHNICAL EDITORS
ELAINE SELLE, *Hanover, New Hampshire*
LUANE COLE, *Hanover, New Hampshire*

EDITORIAL BOARD

ROSEMARY D. BEVAN
Los Angeles, California

W.H. BIRKENHÄGER
Rotterdam, The Netherlands

SIDNEY BLUMENTHAL
New York, New York

DAVID F. BOHR
Ann Arbor, Michigan

EMMANUEL L. BRAVO
Cleveland, Ohio

MICHAEL J. BRODY
Iowa City, Iowa

OSCAR A. CARRETERO
Detroit, Michigan

KEVIN CATT
Bethesda, Maryland

JAY N. COHN
Minneapolis, Minnesota

THOMAS G. COLEMAN
Jackson, Mississippi

HECTOR CROXATTO
Santiago, Chile

ANTHONY F. CUTILLETTA
Baltimore, Maryland

JAMES O. DAVIS
Columbia, Missouri

WYBREN DE JONG
Utrecht, The Netherlands

JACQUE GENEST
Montreal, Canada

FRANZ GROSS
Heidelberg, Germany

FRANCIS J. HADDY
Bethesda, Maryland

BARBRO JOHANSSON
Göteborg, Sweden

PRISCILLA KINCAID-SMITH
Melbourne, Australia

OTTO KUCHEL
Montreal, Canada

HERBERT G. LANGFORD
Jackson, Mississippi

JOHN H. LARAGH
New York, New York

HARRY S. MARGOLIUS
Charleston, South Carolina

MORTON H. MAXWELL
Los Angeles, California

JOHN C. McGIFF
Valhalla, New York

JOHN L. McNAY
San Antonio, Texas

PHILIPPE MEYER
Paris, France

IRVINE H. PAGE
Hyannis Port, Massachusetts

JOHN RAPP
Toledo, Ohio

DONALD J. REIS
New York, New York

RICHARD D. REMINGTON
Ann Arbor, Michigan

J.I.S. ROBERTSON
Glasgow, Scotland

ROBERT TARAZI
Cleveland, Ohio

LOUIS TOBIAN
Minneapolis, Minnesota

PAUL M. VANHOUTTE
Wilrijik, Belgium

RICHARD WEINSHILBOUM
Rochester, Minnesota

JOSEPH WIENER
Detroit, Michigan

YUKIO YAMORI
Kyoto, Japan

ALBERTO ZANCHETTI
Milan, Italy

PUBLICATIONS COMMITTEE, AMERICAN HEART ASSOCIATION
DONALD C. HARRISON, *Chairman, Stanford, California*

DAVID H. BLANKENHORN
Los Angeles, California

C. RICHARD CONTI
Gainesville, Florida

HARRIET P. DUSTAN
Birmingham, Alabama

JOHN W. EVERS
Chicago, Illinois

JOAN B. FITZMAURICE
Cambridge, Massachusetts

EDGAR HABER
Boston, Massachusetts

THOMAS F. HANNON
Chicago, Illinois

BRIAN F. HOFFMAN
New York, New York

J. O'NEAL HUMPHRIES
Baltimore, Maryland

FLETCHER McDOWELL
White Plains, New York

ALBERT J. MILLER
Chicago, Illinois

ROBERT A. O'ROURKE
San Antonio, Texas

ELLIOT RAPAPORT
San Francisco, California

OSCAR M. REINMUTH
Pittsburgh, Pennsylvania

ABRAHAM M. RUDOLPH
San Francisco, California

Hypertension

VOLUME 1

January-December, 1979

January-February 1979, Volume 1, Number 1

EDITORIAL:

Hypertension: A New Journal 1
HARRIET P. DUSTAN, SUZANNE OPARIL, AND HENRY W. OVERBECK

ORIGINAL ARTICLES:

Cardiac Output and Peripheral Resistance in Strains of Rats Sensitive and Resistant to NaCl Hypertension 3
MUKUL GANGULI, LOUIS TOBIAN, AND JUNICHI IWAI

Prolongation of the Saralasin Responsive State of Two-Kidney, One Clip Goldblatt Hypertension in the Rat by the Orally Administered Converting Enzyme Inhibitor Captopril (SQ14,225) 8
WILLIAM C. WEED, E. DARRACOTT VAUGHAN, JR., AND MICHAEL J. PEACH

Mechanism of Angiotensin I Converting Enzyme Inhibition by SQ20,881 (<Glu-Trp-Pro-Arg-Pro-Gln-Ile-Pro-Pro) in Vivo. Further Evidence for Extrapulmonary Conversion 13
SUZANNE OPARIL, TERRY KOERNER, AND J. KEVIN O'DONOGHUE

Cardiovascular Response to Mental Stress in Normal Adolescents with Hypertensive Parents. Hemodynamics and Mental Stress in Adolescents 23
BONITA FALKNER, GADDO ONESTI, E. T. ANGELAKOS, MICHAEL FERNANDES, AND CRAIG LANGMAN

The Importance of Vasopressin in the Development and Maintenance of DOC-Salt Hypertension in the Rat 31
JOAN T. CROFTON, LEONARD SHARE, ROBERT E. SHADE, WON JUNG LEE-KWON, MAURICE MANNING, AND WILBER H. SAWYER

Converting Enzyme Inhibition in Essential Hypertension: The Hypotensive Response Does Not Reflect Only Reduced Angiotensin II Formation 39
EMMANUEL L. BRAVO, AND ROBERT C. TARAZI

Lack of Correlation Between Serum Dopamine-β-Hydroxylase Activity and Blood Pressure in Middle-aged Men 47
JUSSI K. HUTTUNEN, JAAKKO PISPA, TORGER KUMLIN, SEPPO MATTILA, VESA NAUKKARINEN, AND TATU MIETTINEN

Separation of Dog Brain Renin-Like Activity from Acid Protease Activity 53
MOHAMED Y. OSMAN, ROBERT R. SMEBY, AND SUBHA SEN

AMERICAN HEART ASSOCIATION REPORTS:

Nomenclature for Experimental Renovascular Hypertension. Report of the Nomenclature Committee of the Council for High Blood Pressure Research of the American Heart Association 61
IRVINE H. PAGE, SUZANNE OPARIL, DAVID F. BOHR, AND LOUIS TOBIAN

News from the American Heart Association 62

March-April 1979, Volume 1, Number 2

ORIGINAL ARTICLES:

A Quantitative Study of Muscle Nerve Sympathetic Activity in Resting Normotensive and Hypertensive Subjects 67
B. GUNNAR WALLIN, AND GÖRAN SUNDLÖF

Increased Resistance and Impaired Maximal Vasodilation in Normotensive Vascular Beds of Rats with Coarctation Hypertension 78
DAVID R. BELL, AND HENRY W. OVERBECK

Essential Hypertension: An Approach to Clinical Data by the Use of Models 86
NGUYEN PHONG CHAU, MICHEL E. SAFAR, GERARD M. LONDON, AND YVES A. WEISS

Evidence Against Acetone-Soluble Renin Inhibitors in Normal Human Plasma 98
ROBERT E. DRUILHET, MERRILL L. OVERTURF, REX A. HINSHAW, AND WALTER M. KIRKENDALL

Converting Enzyme Inhibition in Essential Hypertension: The Hypotensive Response Does Not Reflect Only Reduced Angiotensin II Formation .....
STEPHEN L. SWARTZ, GORDON H. WILLIAMS, NORMAN K. HOLLENBERG, THOMAS J. MOORE, AND ROBERT G. DLUHY

Micromethod for the Assay of Renin of Seven Species 112
ERWIN HAAS, LAVERA LEWIS, PAUL SCIPIONE, AND T. JOHN KOSHY

Alterations in the Responses of the Sympathetic Nervous System and Renin in Borderline Hypertension 118
DAVID ROBERTSON, DAVID G. SHAND, JOHN W. HOLLIFIELD, ALAN S. NIES, JÜRGEN C. FRÖLICH, AND JOHN A. OATES

Changes in Plasma Renin Activity in Cirrhosis: A Reappraisal Based on Studies in 67 Patients and "Low-Renin" Cirrhosis 125
S. P. WILKINSON, I. K. SMITH, AND ROGER WILLIAMS

The Substitutive Role of ACTH in Supporting Aldosterone Response to Head-up Tilt During Acute Renin Suppression in Patients with Essential Hypertension 130
ALBERTO MORGANTI, JEAN E. SEALEY, JORGE A. LOPEZ-OVEJERO, THOMAS G. PICKERING, AND JOHN H. LARAGH

Racial Differences in Pressure, Volume and Renin Interrelationships in Essential Hypertension 136
STEVEN G. CHRYSANT, KOLA DANISA, DAVID C. KEM, BONNIE L. DILLARD, WALTER J. SMITH, AND EDWARD D. FROHLICH

Circadian Changes in Plasma Renin Activity and Plasma Aldosterone Concentration in Two-Kidney Hypertensive Rats 142
JACK M. DEFORREST, JAMES O. DAVIS, RONALD H. FREEMAN, GREGORY A. STEPHENS, AND BARRY E. WATKINS

SPECIAL REPORT:

General Recommendations of the Hypertension Task Force of the National Heart, Lung and Blood Institute of the National Institutes of Health 150

NEWS FROM THE AMERICAN HEART ASSOCIATION 152

May-June 1979, Volume 1, Number 3

FORWARD: 157

ORIGINAL ARTICLES:

Angiotensin II, Aldosterone, and Arterial Pressure: A Quantitative Approach 159
JEHOIADA J. BROWN, JORGE CASALS-STENZEL, ALISON M. M. CUMMING, DAVID L. DAVIES, ROBERT FRASER, ANTHONY F. LEVER, JAMES J. MORTON, PETER F. SEMPLE, MALCOLM TREE, AND J. IAN S. ROBERTSON

Activation of a Prorenin-Like Substance in Human Plasma by Trypsin and by Urinary Kallikrein 179
JEAN E. SEALEY, STEVEN A. ATLAS, JOHN H. LARAGH, NARENDRA B. OZA, AND JAMES W. RYAN

Modification of the Enzymatic Activity of Renin by Acidification of Plasma and by Exposure of Plasma to Cold Temperatures 190
THEODORE A. KOTCHEN, WILLIAM J. WELCH, AND RAMESH T. TALWALKAR

Angiopathic Serum Factor in Perinephritic Hypertensive Dogs 197
GEZA SIMON

Decreased Venous Distensibility in Borderline Hypertension 202
AKIRA TAKESHITA, AND ALLYN L. MARK

Neuroendocrine Components in the Regulation of Blood Pressure and Renin Secretion 207
WILLIAM F. GANONG, COLIN D. RUDOLPH, AND HEINZ ZIMMERMAN

Circulatory Effects of Chronic Administration of Angiotensin II Into the Cerebrolateral Ventricles of Dogs. Studies on the Development of an Experimental Model of Hypertension 219
BHAGAVAN S. JANDHYALA, MUSTAFA F. LOKHANDWALA, PREMANAND NANDIWADA, AND JOSEPH P. BUCKLEY

Independence of the Central Nervous and the Peripheral Renin-Angiotensin Systems in the Dog 228
M. G. NICHOLLS

Physiological and Pharmacological Characterization of the Area Postrema Pressor Pathways in the Normal Dog 235
CARLOS M. FERRARIO, KAREN L. BARNES, JULIANNA E. SZILAGYI, AND K. BRIDGET BROSNIHAN

Production of Sustained Hypertension by Lesions in the Nucleus Tractus Solitarii of the American Foxhound 246
ROBERT M. CAREY, RALPH G. DACEY, JOHN A. JANE, H. RICHARD WINN, CARLOS R. AYERS, AND GEORGE W. TYSON

Raised Cerebrospinal Fluid Norepinephrine in Some Patients with Primary Hypertension 255
IVAR EIDE, RANIER KOLLOCH, VINCENT DE QUATTRO, LINO MIANO, RONALD DUGGER, AND JOSEPH VAN DER MUELEN

Plasma and Urinary Norepinephrine Values at Extremes of Sodium Intake in Normal Man ... 261
FREIDRICH C. LUFT, LAURA I. RANKIN, DAVID P. HENRY, R. BLOCH, CLARENCE E. GRIM, ARTHUR E. WEYMAN, R. H. MURRAY, AND MYRON H. WEINBERGER

(Continued)

May-June 1979, Volume 1, Number 3 (Continued)

Free and Conjugated Dopamine in Pheochromocytoma, Primary Aldosteronism, and Essential Hypertension 267
OTTO KUCHEL, NGUYEN T. BUU, PAVEL HAMET, WOJCIECH NOWACZYNCKI, AND JACQUES GENEST

Interruption of the Renin-Angiotensin System in Hypertensive Patients by Captopril Induces Sustained Reduction in Aldosterone Secretion, Potassium Retention, and Natriuresis 274
STEVEN A. ATLAS, DAVID B. CASE, JEAN E. SEALEY, JOHN H. LARAGH, AND DORIS N. MCKINSTRY

Inhibition of Human Peptidyl Dipeptidase (Angiotensin I Converting Enzyme: Kininase II) by Human Serum Albumin and Its Fragments 281
RAINER J. KLAUSER, CAROL J. G. ROBINSON, AND ERVIN G. ERDÖS

Relation Between Blood Pressure and Renin, Renin Substrate, Angiotensin II, Aldosterone and Urinary Sodium and Potassium in 574 Ambulatory Subjects 287
W. GORDON WALKER, PAUL K. WHELTON, HIROSHI SAITO, R. PATTERSON RUSSELL, AND JUDY HERMANN

Acute Angiotensin II-Mediated Restoration of Distal Renal Artery Pressure in Renal Artery Stenosis and its Relationship to the Development of Sustained "One-Kidney" Hypertension in Conscious Dogs 292
WARWICK P. ANDERSON, PAUL I. KORNER, AND COLIN I. JOHNSTON

Antihypertensive Polar Renomedullary Lipid, A Semisynthetic Vasodilator 299
RUSSELL L. PREWITT, BYRON E. LEACH, LAWRENCE W. BYERS, BENNIE BROOKS, WILLIAM E. M. LANDS, AND E. ERIC MUIRHEAD

Effects of Prostacyclin (PGI_2), 6-oxo-$PGF_{1\alpha}$, and PGE_2 on Sympathetic Nerve Function in Mesenteric Arteries and Veins of the Rabbit in Vitro 309
J. MICHAEL ARMSTRONG, GRAHAM THIRSK, AND JOHN A. SALMON

Prevention with Thiazide of NaCl-Induced Hypertension in Dahl "S" Rats. Evidence for a Na-Retaining Humoral Agent in "S" Rats 316
LOUIS TOBIAN, JUDITH LANGE, JUNICHI IWAI, KRISTINE HILLER, MARY ANN JOHNSON, AND PATRICIA GOOSSENS

Autoregulation versus Other Vasoconstrictors in Hypertension. A Critical Review 324
THOMAS G. COLEMAN, ROBERT E. SAMAR, AND WILLIAM R. MURPHY

Sodium, Extra-Cellular Fluid Volume, and Cardiac Output Changes in the Genesis of Mineralocorticoid Hypertension in the Intact Dog 331
KAORU ONOYAMA, EMMANUEL L. BRAVO, AND ROBERT C. TARAZI

NEWS FROM THE AMERICAN HEART ASSOCIATION .....337, Ad page 39

July-August 1979, Volume 1, Number 4

ORIGINAL ARTICLES:

Changes in Plasma Norepinephrine, Blood Pressure and Heart Rate During Physical Activity in Hypertensive Man 341
ROBERT D. S. WATSON, CARLENE A. HAMILTON, JOHN L. REID, AND WILLIAM A. LITTLER

Serial Renin-Angiotensin Studies in Spontaneously Hypertensive and Wistar-Kyoto Normotensive Rats. Transition from Normal- to High-Renin Status During the Established Phase of Spontaneous Hypertension 347
SUSAN P. BAGBY, WALTER J. MCDONALD, AND ROBERT D. MASS

Plasma Renin Activity, Reactivity, Concentration and Substrate following Hypertension During Pregnancy. Effect of Oral Contraceptive Agents 355
THEODORE A. KOTCHEN, J. MORLEY KOTCHEN, GORDON P. GUTHRIE, JR., AND CAROL M. COTTRILL

Clonidine and Carotid Baroreflex in Essential Hypertension 362
GIUSEPPE MANCIA, ALBERTO FERRARI, LUISA GREGORINI, AND ALBERTO ZANCHETTI

Glomerular and Renal Hemodynamics During Converting Enzyme Inhibition (SQ20,881) in the Dog 371
L. GABRIEL NAVAR, R. A. LAGRANGE, P. D. BELL, C. E. THOMAS, AND D. W. PLOTH

Regional Myocyte Size in Normotensive and Spontaneously Hypertensive Rats 378
SANFORD P. BISHOP, SUZANNE OPARIL, REBECCA H. REYNOLDS, AND JANICE L. DRUMMOND

Tigerstedt and the Discovery of Renin. An Historical Note 384
LEONARD S. MARKS, AND MORTON H. MAXWELL

Angiotensin and Sodium Balance: Their Role in Chronic Two-Kidney Goldblatt Hypertension 389
YOICHI OTSUKA, OSCAR A. CARRETERO, RENATO ALBERTINI, AND ALBERTO BINIA

Hemodynamic and Antihypertensive Effects of Captopril, an Orally Active Angiotensin Converting Enzyme Inhibitor 397
JAY M. SULLIVAN, BURT A. GINSBURG, THOMAS E. RATTS, JAMES G. JOHNSON, BEN R. BARTON, DAVID H. KRAUS, DORIS N. MCKINSTRY, AND E. ERIC MUIRHEAD

The Role of Angiotensin in the Control of Blood Pressure During Sodium Depletion 402
JAMES CONWAY, RAYMOND HATTON, JOHN KEDDIE, AND PAUL DAWES

Factors Controlling Plasma Renin and Aldosterone During Pregnancy 410
WILLIAM H. BAY, AND THOMAS F. FERRIS

The Effect of Converting Enzyme Inhibition with SQ20,881 on Plasma and Urinary Kinins, Prostaglandin E, and Angiotensin II in Hypertensive Man 416
JOSEPH M. VINCI, DAVID HORWITZ, RANDALL M. ZUSMAN, J. J. PISANO, KEVIN J. CATT, AND HARRY R. KEISER

Role of Renin-Angiotensin System in Chronic Renal Hypertensive Rats 427
SUBHA SEN, ROBERT R. SMEBY, F. MERLIN BUMPUS, AND JOSEPH G. TURCOTTE

EDITORIAL

Some Theories of Hypertension: Fact and Fancy 435
MILTON MENDLOWITZ

NEWS FROM THE AMERICAN HEART ASSOCIATION 442

September-October 1979, Volume 1, Number 5

ORIGINAL ARTICLES:

Goldblatt Memorial Lecture: Part I. Experimental Renovascular Hypertension 447
A. CLIFFORD BARGER

Goldblatt Memorial Lecture: Part II. The Role of the Kidney in Hypertension 456
NORMAN M. KAPLAN

The Effect of SQ14,225 on Systolic Blood Pressure and Urinary Excretion of Vasopressin in the Developing Spontaneously Hypertensive Rat 462
JOAN T. CROFTON, LEONARD SHARE, AND ZOLA P. HOROVITZ

Pathophysiology of Hypertension in Blacks and Whites. A Review of the Basis of Racial Blood Pressure Differences 468
RICHARD F. GILLUM

Responses to Volume Expansion and Contraction in Categorized Hypertensive and Normotensive Man 476
CLARENCE E. GRIM, FRIEDRICH C. LUFT, NAOMI S. FINEBERG, AND MYRON H. WEINBERGER

Cardiovascular Hypertrophy and "Waterlogging" in Coarctation Hypertension. Role of Sympathoadrenergic Influences and Pressure 486
HENRY W. OVERBECK

Association of Blood Groups with Essential and Secondary Hypertension. A Possible Association of the MNS System 493
JUDY Z. MILLER, CLARENCE E. GRIM, P. M. CONNEALLY, AND MYRON H. WEINBERGER

Chronic Hypothalamic Stimulation in Awake Rats Fails to Induce Hypertension 498
RUBEN D. BUÑAG, AND ELINOR RILEY

Central Hemodynamics in the Developmental Stage of Spontaneous Hypertension in the Unanesthetized Rat 508
THOMAS L. SMITH, AND PHILLIP M. HUTCHINS

Mitral Valve Prolapse and Borderline Hypertension 518
JOSE G. R. DECARVALHO, FRANZ H. MESSERLI, AND EDWARD D. FROHLICH

Studies on Renin Activation in Normal Human Plasma 523
PETER EGGENA, JACK D. BARRETT, CHARLES E. WIEDMAN, AND MOHINDER P. SAMBHI

Can Overnight Urine Replace 24-Hour Urine Collection to Assess Salt Intake? 529
KIANG LIU, ALAN R. DYAR, RICHARD S. COOPER, ROSE STAMLER, AND JEREMIAH STAMLER

Estimating Compliance with Diuretic Therapy: Urinary Hydrochlorothiazide-Creatinine Ratios in Normal Subjects 537
ROBERT H. HODGE, SUSAN S. LYNCH, JOHN P. DAVISON, JAMES G. KNIGHT, JUDY A. SINN, AND ROBERT M. CAREY

CASE REPORT:

Symtomatic Sick Sinus Syndrome due to Guanethidine 543
JACOB ROWE, AND MAYER M. BASSAN

SPECIAL REPORT:

Review of the WHO Expert Committee Report on Arterial Hypertension 547
EDWARD D. FROHLICH

NEWS FROM THE AMERICAN HEART ASSOCIATION 549A

November-December 1979, Volume 1, Number 6

ORIGINAL ARTICLES:

Changes in Renal Vascular Sensitivity and Arterial Pressure Associated with Sodium Intake During Long-Term Intrarenal Norepinephrine Infusion in Dogs 549
ALLEN W. COWLEY, JR., AND THOMAS E. LOHMEIER

Blood Pressure in Childhood. The National Health Examination Survey 559
WILLIAM R. HARLAN, JOAN CORNONI-HUNTLEY, AND PAUL E. LEAVERTON

Blood Pressure in Adolescence. The United States Health Examination Survey 566
JOAN CORNONI-HUNTLEY, WILLIAM R. HARLAN, AND PAUL E. LEAVERTON

Evidence for Enhanced Sodium Transport in the Tail Artery of the Spontaneously Hypertensive Rat 572
SYDNEY M. FRIEDMAN

Genetic Influences on Renin, Aldosterone, and the Renal Excretion of Sodium and Potassium Following Volume Expansion and Contraction in Normal Man 583
CLARENCE E. GRIM, JUDY Z. MILLER, FREIDRICH C. LUFT, JOE C. CHRISTIAN, AND MYRON H. WEINBERGER

Hemodynamic Responses to DOCA in Young Pigs 591
APHEL WILLIAM MILLER, DAVID F. BOHR, ANTHONY M. SCHORK, AND JAMES M. TERRIS

Sympathetic Nerve Activity and Blood Pressure in Normotensive Backcross Rats Genetically Related to the Spontaneously Hypertensive Rat 598
WILLIAM V. JUDY, AUGUST M. WATANABE, WILLIAM R. MURPHY, BARRY S. APRISON, AND PAO-LO YU

Arterial Baroreceptor Reflex Control of Sympathetic Nerve Activity in the Spontaneously Hypertensive Rat 605
WILLIAM V. JUDY, AND SUSAN K. FARRELL

Rapid Dextran Infusion in Essential Hypertension 615
MICHEL E. SAFAR, GERARD M. LONDON, J. A. LEVENSON, A. CH. SIMON, AND NGUYEN PHONG CHAU

Exchangeable Sodium in Angiotensinogenic and Nonangiotensinogenic Renovascular Hypertension 624
RENATO ALBERTINI, ALBERTO BINIA, YOICHI OTSUKA, AND OSCAR A. CARRETERO

Variability in 24-Hour Urine Sodium Excretion in Children 631
KIANG LIU, RICHARD COOPER, IVAN SOLTERO, AND JEREMIAH STAMLER

Saralasin-Induced Renin Release: Its Blockade by Prostaglandin Synthesis Inhibitors in the Conscious Rat 637
WILLIAM B. CAMPBELL, EDWIN K. JACKSON, AND ROBERT M. GRAHAM

Vascular Renin-like Activity and Blood Pressure Maintenance in the Rat. Studies of the Effect of Changes in Sodium Balance, Hypertension, and Nephrectomy 643
H. THURSTON, J. D. SWALES, R. F. BING, B. C. HURST, AND E. S. MARKS

Serum Immunoglobulins in Hypertension 650
E. VICTOR ADLIN, JESUS MOCTEZUMA, ALLAN D. MARKS, AND BERTRAM J. CHANNICK

SPECIAL REPORT:

Nomenclature of the Renin-Angiotensin System 654

VOLUME AUTHOR INDEX 657

VOLUME SUBJECT INDEX 659

NEWS FROM THE AMERICAN HEART ASSOCIATION 672A

Publisher's Statement

Hypertension (USPS 482-390) is published bimonthly by the:
American Heart Association, 7320 Greenville Avenue, Dallas, Texas 75231.
Second class postage paid at Dallas, Texas and additional mailing offices.

Postmaster: Please send address changes to *Hypertension,* American Heart Association, 7320 Greenville Avenue, Dallas, Texas 75231.

Copyright © 1979, American Heart Association, Inc.
7320 Greenville Avenue, Dallas, Texas 75231

Subscription Rates: United States, $35.00 per year; $17.50 for medical students, house officers, and research fellows. Outside United States, $40.00 per year. Single copies, $6.50 U.S.; $7.00 outside U.S., prepaid. To subscribe write to:

HYPERTENSION
c/o Publishing Director
American Heart Association
7320 Greenville Avenue
Dallas, Texas 75231
Tel. 214-750-5466

Editorial Correspondence: Manuscripts and editorial correspondence should be addressed to:
Harriet P. Dustan, M.D., *Editor-in-Chief*
HYPERTENSION
University of Alabama Medical Center
Dental Building Box 47
Birmingham, Alabama 35294
Tel. 205-934-6157

Business Correspondence: Changes of address, orders, payments, and other business correspondence should be addressed to:

HYPERTENSION
c/o Publishing Director
American Heart Association
7320 Greenville Avenue
Dallas, Texas 75231
Tel. 214-750-5464

Note: *Hypertension* (Volume 1, 1979) is not related to any other publication in the field of hypertension medicine except for *Recurring Bibliography of Hypertension,* also published by the American Heart Association.

HPTRDN 1 (19) 1-671 (1979)
ISSN 0194-911X